Aquifer Storage and Recovery (ASR) in CERP

ASR Issue Team

Working Group Update

April 2005

Milestones

September 1998 - Team formed to assess large-scale CERP ASR implementation

July 1999 Team Reports to WG - identifies 7 issues and 5 strategies to address them.

May 2001 CROGEE report on ASR – 3 areas of focus for more information: regional science, water quality, and local feasibility

2001 – 2004 Agencies continue work on ASR pilot projects and regional study. WG Team becomes inactive

January 2005 WG calls for an update on ASR issue to determine whether to sunset team or not

July 1999 Report - 7 key issues

1. Characterization of the quality of prospective source waters, spatial and temporal variability.
2. Characterization of Regional Hydrogeology of the Upper Floridan Aquifer: Hydraulic Properties and Water Quality.
3. Analysis of critical pressure for rock fracturing.
4. Analysis of site and regional changes in head and patterns of flow.
5. Analysis of water quality changes during movement and storage in the aquifer
6. Aquifer Storage and Recovery Potential Effects on Mercury Bioaccumulation for Ecosystem Restoration Projects
7. Relationship between ASR storage interval properties and recovery rates and recharge volume

More information needed:

1. Information needed to validate regional-scale application
2. Source water suitability assuming minimal pretreatment
3. Hydraulic response to large-scale recharge and recovery
4. Assessment of recovered water for environmental compatibility
5. Demonstration of large-scale ASR wells closely clustered to obtain operational

ASR Issue Team Charter, 7/24/01

Questions or Comments?